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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/717,632	11/21/2003	Victor Verbinski	SAIC0055-CCIP2	9218
	7590 07/05/2007 ETOCKTON LLD		EXAMINER	
KILPATRICK STOCKTON LLP 607 14TH STREET, N.W.			LEE, SHUN K	
WASHINGTON	N, DC 20005		ART UNIT	PAPER NUMBER
			2884	
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		•	07/05/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/717,632	VERBINSKI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Shun Lee	2884	
The MAILING DATE of this communicatio Period for Reply	n appears on the cover sheet w	ith the correspondence address	
A SHORTENED STATUTORY PERIOD FOR R WHICHEVER IS LONGER, FROM THE MAILIN - Extensions of time may be available under the provisions of 37 C after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory Failure to reply within the set or extended period for reply will, by Any reply received by the Office later than three months after the earned patent term adjustment. See 37 CFR 1.704(b).	NG DATE OF THIS COMMUNI FR 1.136(a). In no event, however, may a on. period will apply and will expire SIX (6) MOI statute, cause the application to become A	CATION. reply be timely filed NTHS from the mailing date of this communication. BANDONED (35 U.S.C. § 133).	
Status		,	
 Responsive to communication(s) filed on This action is FINAL. Since this application is in condition for al closed in accordance with the practice un 	This action is non-final. Iowance except for formal mat	ters, prosecution as to the merits is	
Disposition of Claims			
4) Claim(s) 1,2,4,5,7,8 and 43-46 is/are pen 4a) Of the above claim(s) is/are wit 5) Claim(s) is/are allowed. 6) Claim(s) 1,2,4,5,7,8 and 43-46 is/are reje 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and an application Papers 9) The specification is objected to by the Example 10) The drawing(s) filed on 21 November 2000 Applicant may not request that any objection to Replacement drawing sheet(s) including the control of the c	thdrawn from consideration. cted. and/or election requirement. aminer. 3 is/are: a) accepted or b) to the drawing(s) be held in abeya correction is required if the drawing	nce. See 37 CFR 1.85(a). g(s) is objected to. See 37 CFR 1.121(d)	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for for a) All b) Some * c) None of: 1. Certified copies of the priority docu 2. Certified copies of the priority docu 3. Copies of the certified copies of the application from the International B * See the attached detailed Office action for	ments have been received. ments have been received in a e priority documents have been tureau (PCT Rule 17.2(a)).	Application No n received in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-94 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 20061222,20070321,20070606	Paper No	Summary (PTO-413) (s)/Mail Date Informal Patent Application 	

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3 May 2007 has been entered.

Information Disclosure Statement

2. The information disclosure statement filed on 6 June 2007 does not fully comply with the requirements of 37 CFR 1.98 because <u>each</u> page of the list must include a heading that clearly indicates that the list is an information disclosure statement. Since the submission appears to be *bona fide*, applicant is given **ONE** (1) **MONTH** from the date of this notice to supply the above mentioned omissions or corrections in the information disclosure statement. NO EXTENSION OF THIS TIME LIMIT MAY BE GRANTED UNDER EITHER 37 CFR 1.136(a) OR (b). Failure to timely comply with this notice will result in the above mentioned information disclosure statement being placed in the application file with the noncomplying information **not** being considered. See 37 CFR 1.97(i).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the

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invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

- 4. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).
- 5. Claims 1, 2, 4, 5, 8, and 43 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swift *et al.* (US 5,764,683) in view of Armisted (US 5,838,759) and Morgan (US 3,240,971).

In regard to claim 1, Swift *et al.* disclose (Fig. 2A) a target object inspection system comprising:

- (a) a first detector (" ... at least one detector mounted on the bed ... the at least one detector may be ... a transmission detector"; column 2, lines 13-21) for detecting radiation from a radiation source (" ... transmitted x-ray beam ... from the x-ray source ... "; column 9, line 66 to column 10, line 29);
- (b) a mobile platform (24) including the first detector and the radiation source, wherein the mobile platform (24) is a truck (24) which includes a truck bed, and the first detector is located on the truck bed (" ... at least one detector mounted on the bed ... the at least one detector may be ... a transmission detector"; column 2, lines 13-21); and

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(c) a boom (32) connected to the mobile platform (24) at a second end of the boom, wherein the first end of the boom is deployed (see Fig. 2A) so as to effect passage of the target object (22, 23) between the first detector (located on the truck bed; column 2, lines 13-21) and the radiation source (connected to the first end of the boom since the mobile platform (24) and the target object (22, 23) pass alongside one another during inspection; column 9, line 66 to column 10, line 29), and the mobile platform (24) being capable of inspecting a target object (22, 23) either when the mobile platform (24) is stationary or when the mobile platform (24) is moving.

While Swift et al. also disclose that the at least detector mounted on the bed is capable of operating in integral mode, wherein the at least detector detects only while ON and is turned ON and OFF (e.g., "shut down"; column 9, lines 61-65) by an operator, the system of Swift et al. lacks that the at least detector mounted on the bed comprises at least one helium neutron detector for detecting neutrons from the target object wherein the helium neutron detector is capable of operating in differential mode where the neutron detector is always ON and is set to detect neutrons above a pre-set threshold level. However, Armisted teaches (column 3, lines 6-8) to provide a neutron detector in order to detect contraband comprising special nuclear material. In addition, Morgan teaches (column 1, line 9 to column 2, line 23) that helium neutron detectors have a high efficiency for detection of neutrons wherein a threshold discriminator is employed for discrimination against noise. Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to provide at least one high efficiency neutron detector with threshold discriminator (i.e., a helium neutron detector for detecting neutrons from

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the target object wherein the helium neutron detector is capable of operating in differential mode where the neutron detector is set to detect neutrons above a pre-set threshold level) in the system of Swift *et al.*, and is always turned ON in order to continuously detect for contraband comprising special nuclear material.

In regard to claim **2** which is dependent on claim 1, Swift *et al.* also disclose (column 9, line 66 to column 10, line 29) that the first detector is a photon detector.

In regard to claim 4 which is dependent on claim 1, Swift *et al.* also disclose that the first detector detects radiation from the radiation source after the radiation passes through the target object (" ... transmitted x-ray beam ... "; column 9, line 66 to column 10, line 29).

In regard to claim **5** which is dependent on claim 1, Swift *et al.* also disclose that the radiation source is a gamma radiation source (*i.e.*, " ... more energetic forms of radiation ... "; column 3, lines 41-54).

In regard to claim **8** which is dependent on claim 1, the system of Swift *et al.* lacks an explicit description of an indicator for indication the presence of neutrons. However, Swift *et al.* also disclose (column 7, line 55 to column 8, line 12) displays for displaying radiation images. Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to that the displays in the system of Swift *et al.* is an indicator for indication the presence of radiation (*e.g.*, neutrons).

In regard to claim **43** which is dependent on claim 1, the system of Swift *et al.*lacks a processor capable of receiving first data from a velocity measuring device indicative of the velocity of the target during inspection and capable of receiving second

data from the first detector and forming an image of the contents of the target object using the first and second data. Armisted teaches (column 9, line 48-66) to measure and correct for irregularities in motion. Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to provide first data from a velocity measuring device to a processor in the system of Swift *et al.*, in order to correct for irregularities in motion of the target during inspection.

6. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over Swift *et al.* (US 5,764,683) in view of Armisted (US 5,838,759) and Morgan (US 3,240,971) as applied to claim 2 above, and further in view of Kubierschky *et al.* (US 4,893,015).

In regard to claim **7** which is dependent on claim 2, while Swift *et al.* also disclose (column 7, line 55 to column 8, line 12) displays for displaying radiation images (*e.g.*, of the target object), the modified system of Swift *et al.* lacks that the displays are responsive to a counter for discretely counting photons received by the first detector. However, Kubierschky *et al.* teach (column 1, lines 37-64) to detect and count detect discrete pulses so that low levels of radiation can be detected. Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to provide a counter for discretely counting photons received by the first detector in the modified system of Swift *et al.*, in order to detect low levels of radiation.

7. Claims 44 and 45 are rejected under 35 U.S.C. 103(a) as being unpatentable over Swift *et al.* (US 5,764,683) in view of Armisted (US 5,838,759) and Morgan (US 3,240,971) as applied to claim 43 above, and further in view of Asano *et al.* (US 5,629,669).

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In regard to claims **44** and **45** which are dependent on claim 43, the modified system of Swift *et al.* lacks that the velocity measuring device is a Doppler radar system or a radar range finder. However, Armisted teaches (column 9, line 48-66) to measure and correct for irregularities in motion. In addition, Asano *et al.* teach (column 24, lines 30-39) to provide a doppler radar range finder, in order to measure vehicle speed. Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to provide first data from a velocity measuring device (*e.g.*, a doppler radar range finder) to a processor in the system of Swift *et al.*, in order to correct for irregularities in motion of the target during inspection.

8. Claim 46 is rejected under 35 U.S.C. 103(a) as being unpatentable over Swift *et al.* (US 5,764,683) in view of Armisted (US 5,838,759) and Morgan (US 3,240,971) as applied to claim 43 above, and further in view of Hoffmann (US 4,173,010).

In regard to claim **46** which is dependent on claim **43**, the modified system of Swift *et al.* lacks that the velocity measuring device comprises at least two pressure pads spaced a known distance apart. However, Armisted teaches (column 9, line 48-66) to measure and correct for irregularities in motion. In addition, Hoffmann teaches (column 2, lines 36-58) it is known to provide two pneumatic hoses (*i.e.*, pressure pads) spaced a known distance apart, in order to measure vehicle speed. Therefore it would have been obvious to one having ordinary skill in the art at the time of the invention to provide first data from a velocity measuring device (*e.g.*, at least two pressure pads spaced a known distance apart) to a processor in the system of Swift *et al.*, in order to correct for irregularities in motion of the target during inspection.

Response to Arguments

9. Applicant's arguments with respect to amended claims have been considered but are most in view of the new ground(s) of rejection.

Conclusion

10. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shun Lee whose telephone number is (571) 272-2439. The examiner can normally be reached on Monday-Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, David Porta can be reached on (571) 272-2444. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

ONSTANTINE HANNAHER PRIMARY EXAMINER

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